

ABSTRACT

The invention relates to the identification and use of the *DAF-2/IR* responsive *sod-3* promoter. Transgenic *C. elegans* containing *sod-3* reporter gene constructs are described which are useful for, among other things, the identification of genes or 5 compounds capable of modulating the *DAF-2/IR – akt* pathway. Conditions are disclosed that increase or decrease the reporter activity, demonstrating the presence of either activators or inhibitors of the *DAF-2/IR* pathway.